

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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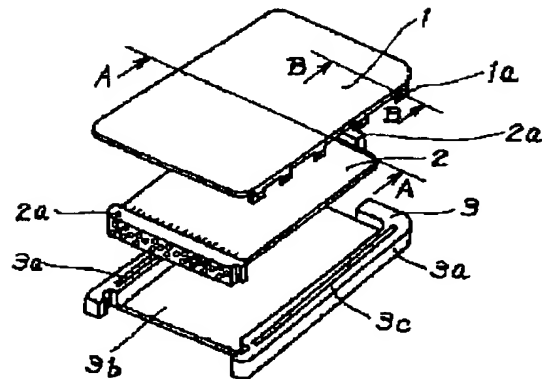
APPLICATION DATE : 06-12-93  
APPLICATION NUMBER : 05304950

APPLICANT : HITACHI ASAHI ELECTRON:KK;

INVENTOR : KAMEYAMA TAKAYUKI;

INT.CL. : G06K 19/00 G06K 19/07 G11C 5/00

TITLE : IC CARD



ABSTRACT : PURPOSE: To provide a IC card structure which is high in reliability to mechanical or thermal stress.

CONSTITUTION: This card is the IC card where a case 3 integrates a frame part 3a and a panel part 3b, and plural tongue pieces 1a which are provided on a panel 1 and have elasticity are force-fitted in the groove 3c of the case 3 and are restrained. By using the case 3 integrating the frame 3a and the panel 3b on one side and using a system where the tongue pieces 1a having elasticity are force-fitted and restrained for the coupling of the other side panel 1 and the case 3, parts control man-hour can be remarkably reduced and reliability to mechanical or thermal stress is improved. Further the recycling of material becomes possible because the disassembling is easy.

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## PATENT ABSTRACTS OF JAPAN

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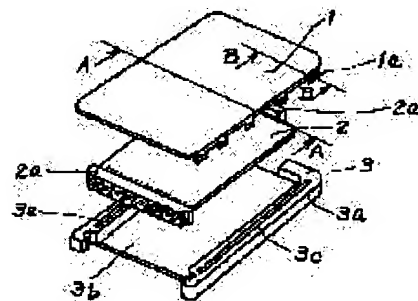
(21)Application number : 05-304950 (71)Applicant : HITACHI LTD  
 HITACHI ASAHI ELECTRON:KK  
 (22)Date of filing : 06.12.1993 (72)Inventor : SHIBATA TOSHIO  
 KAMEYAMA TAKAYUKI

## (54) IC CARD

## (57)Abstract:

PURPOSE: To provide a IC card structure which is high in reliability to mechanical or thermal stress.

CONSTITUTION: This card is the IC card where a case 3 integrates a frame part 3a and a panel part 3b, and plural tongue pieces 1a which are provided on a panel 1 and have elasticity are force-fitted in the groove 3c of the case 3 and are restrained. By using the case 3 integrating the frame 3a and the panel 3b on one side and using a system where the tongue pieces 1a having elasticity are force-fitted and restrained for the coupling of the other side panel 1 and the case 3, parts control man-hour can be remarkably reduced and reliability to mechanical or thermal stress is improved. Further the recycling of material becomes possible because the disassembling is easy.



## LEGAL STATUS

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[Date of requesting appeal against  
examiner's decision of rejection]

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
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A	US 5 879 170 A (NOGAMI DAISUKE) 9 March 1999 (1999-03-09) * column 2, line 65 - column 3, line 20 * * column 3, line 35 - line 52 * * column 4, line 1 - line 16 * * figures 2-7 *	1,3-5, 7-11	
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The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 10 August 2001	Examiner Bhalodia, A
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document	

**ANNEX TO THE EUROPEAN SEARCH REPORT  
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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
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